

EVERYTHING ELSE IS CHANGING

RESOURCES

TRAINING

TOOLS

GLENN RESEARCH CENTER

SET UP A USERS GROUP

WHY NOT CM?

# WHAT ARE WE GOING TO TRY AND DO HERE TODAY?

## Determine

- What CM resources we have at GRC
- Who are the CM people?
- Where are the CM people?
- CM capabilities we have at GRC
- CM tools we have at GRC
- CM tools we need at GRC
- What CM training we need at GRC
- Total capability of CM at GRC
- CM now and What's ahead

# Why?

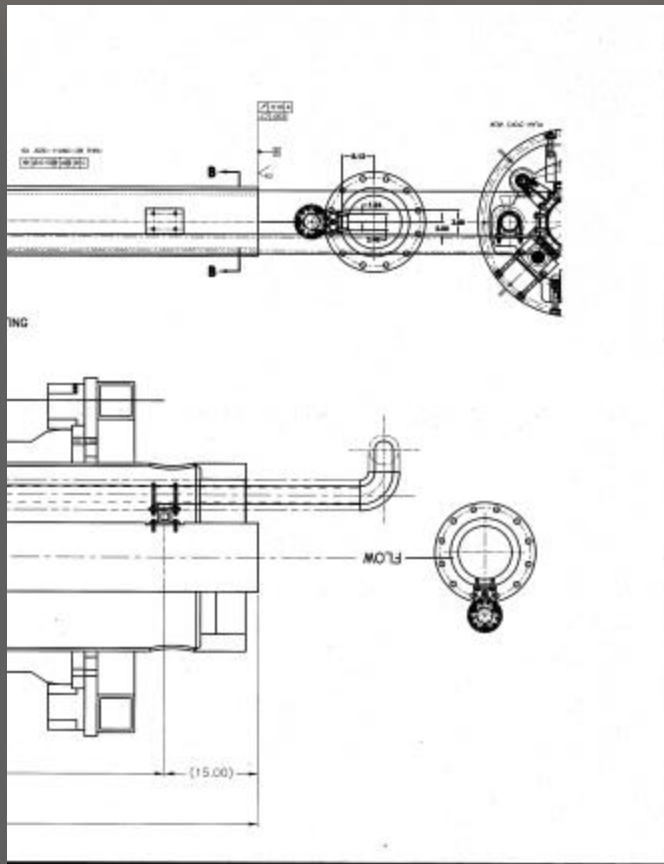
CM IS CHANGING LIKE EVERYTHING ELSE!

- We need to help each other
- Form a GRC CM Working Group
  - NASA & All Contractors
- We are in competition with the World including:
  - Other NASA Labs
  - Dept of Defense (DOD)
  - Other Government Labs

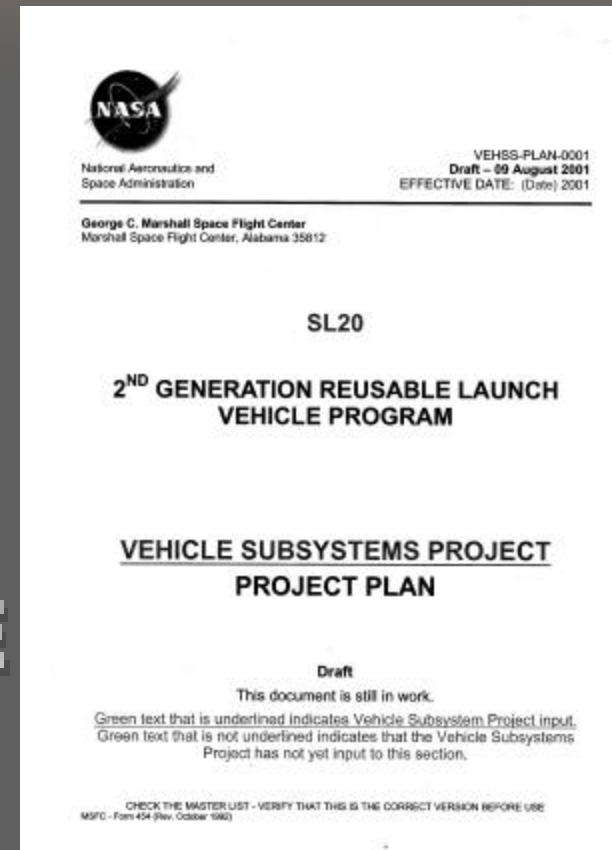


It's Called:

Survival



# SOFTWARE FILES



# DRAWINGS

# DOCUMENTS

# PRODUCTS AND PROCESSES

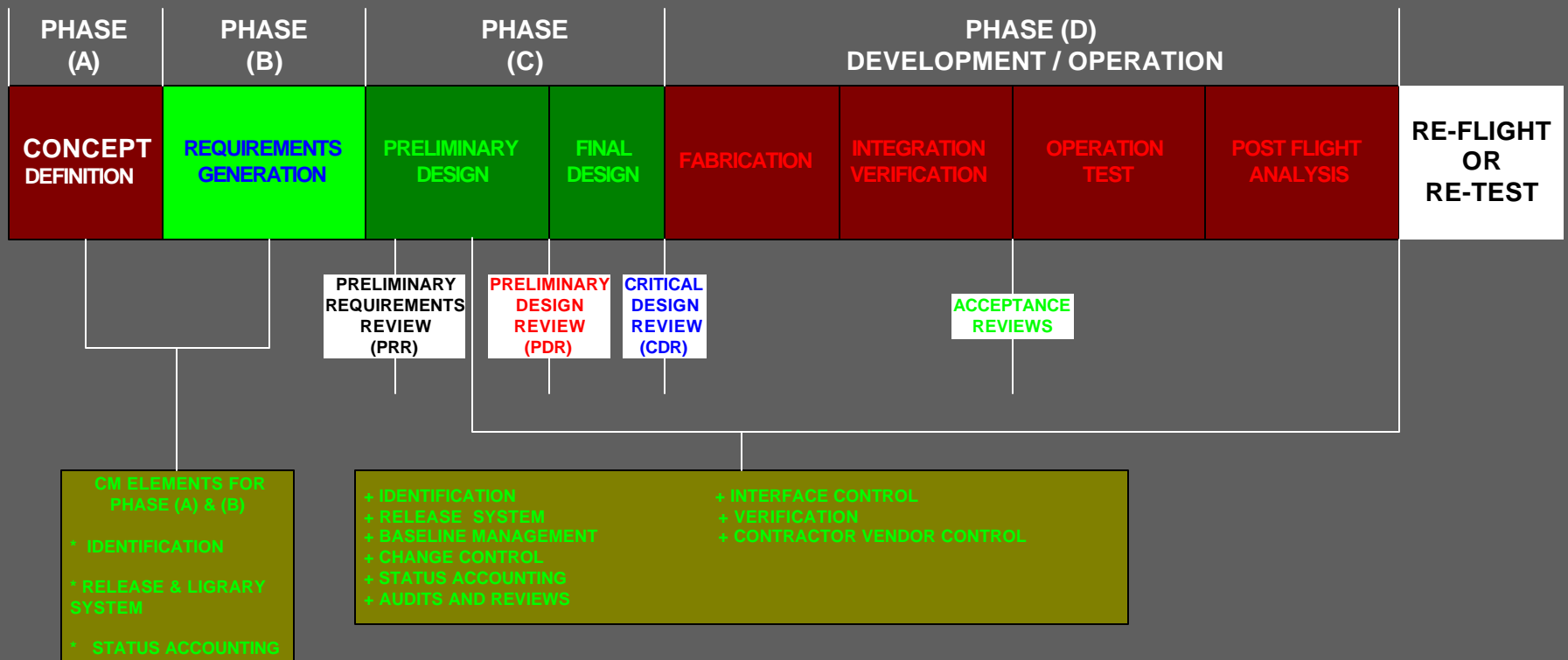
## PRIMARY FUNCTIONS

DEVELOPMENT  
MANUFACTURING  
VERIFICATION  
DEPLOYMENT  
OPERATIONS  
SUPPORT  
TRAINING  
DATA DELIVERY  
DISPOSAL

## SYSTEM ELEMENTS

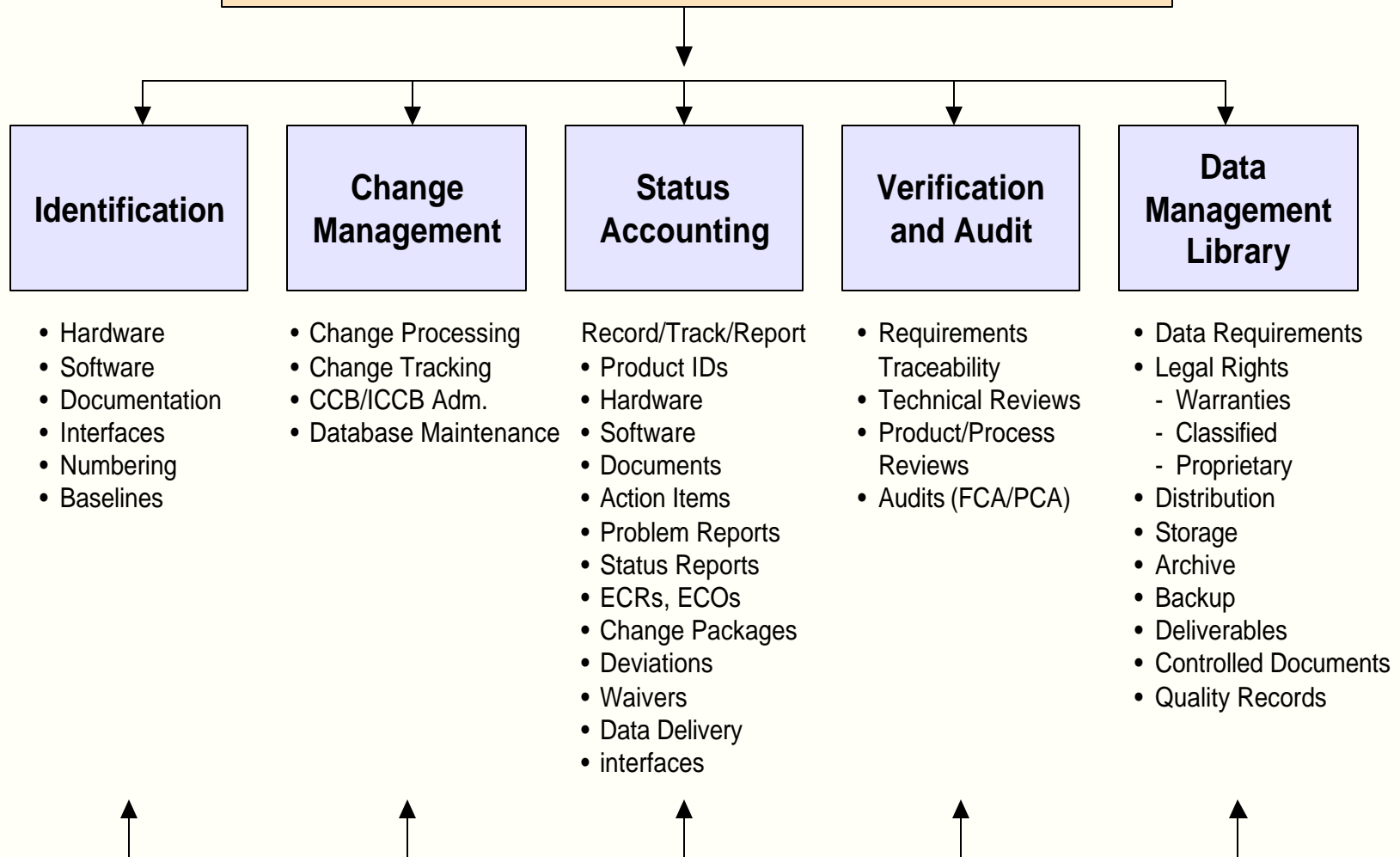
HARDWARE  
SOFTWARE  
FACILITIES  
PERSONNEL  
TOOLS  
DATA  
OPERATIONS & LOGISTICS

# WHEN SHOULD CM START?



TYPICAL PROGRAM REVIEW PHASING

# Configuration Management Activities



**All data is identified in the Configuration Status Accounting System**



## SOFTWARE

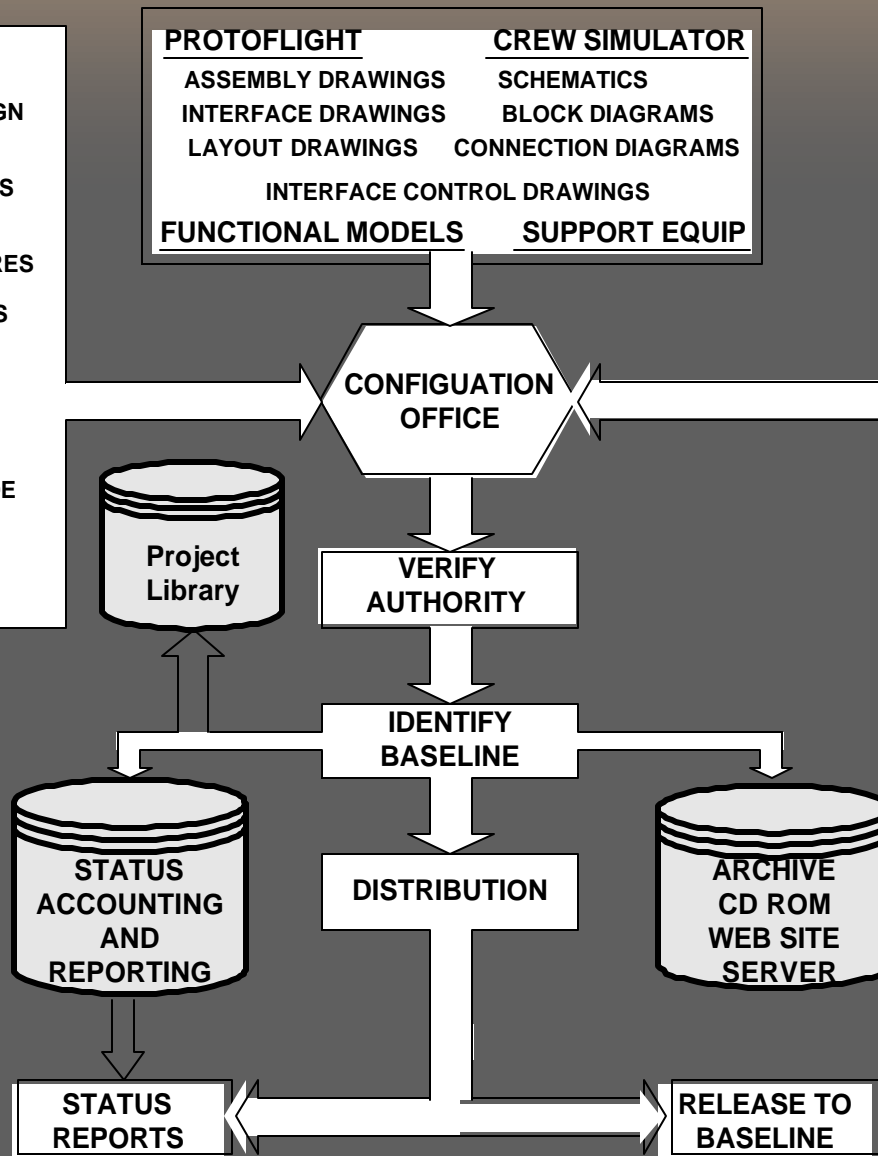
SOFTWARE DETAILED DESIGN DOCUMENTS  
SOFTWARE REQUIREMENTS SPECIFICATIONS  
SOFTWARE TEST PROCEDURES  
SOFTWARE TEST REPORTS  
SOFTWARE USERS GUIDE  
VERSION DESCRIPTION DOCUMENT  
SOURCE AND OBJECT CODE  
CODE LISTINGS

## DRAWINGS

<u>PROTOFLIGHT</u>	<u>CREW SIMULATOR</u>
ASSEMBLY DRAWINGS	SCHEMATICS
INTERFACE DRAWINGS	BLOCK DIAGRAMS
LAYOUT DRAWINGS	CONNECTION DIAGRAMS
INTERFACE CONTROL DRAWINGS	
FUNCTIONAL MODELS	SUPPORT EQUIP

## DOCUMENTS

ANALYSIS REPORTS  
ASSEMBLY PROCEDURES  
CHECKOUT PROCEDURES  
SAFETY COMPLIANCE DATA  
GROUND SAFETY DATA  
DESIGN, DEVELOPMENT AND PRODUCT SPECIFICATIONS  
MATERIAL SPECIFICATIONS  
SAFETY CRITICAL STRUCTURES PACKAGE  
SOURCE AND SPECIFICATION DOCUMENTS AND DRAWINGS  
TEST PROCEDURES AND REPORTS  
VERIFICATION PLANS AND PROCEDURES  
ENGINEERING CHANGE ORDERS  
DEVIATIONS & WAVIERS

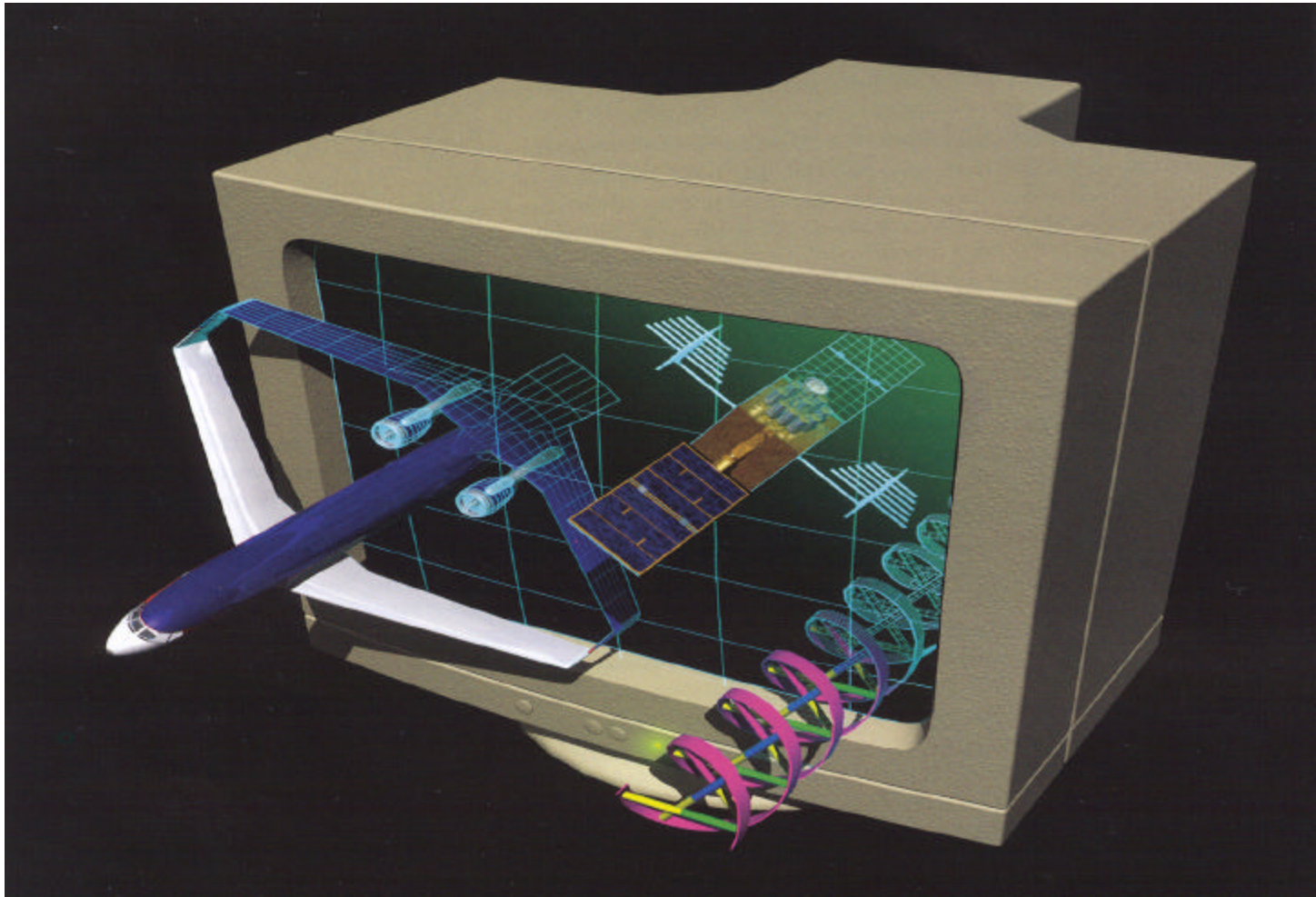


The background of the image is a stylized landscape. The top portion is a light brown, textured sky. Below the sky is a dark grey, gradient ground that transitions from a lighter grey at the top to a darker grey at the bottom. The text is centered in the middle of the image.

**SO!**

**WHAT'S NEW?**

## GETTING OUT OF THE PAPER ENVIRONMENT



**DIGITAL CONFIGURATION MANAGEMENT**

# CONFIGURATION MANAGEMENT

- **MODELING AND SIMULATION**
- **SIMULATION REALITY**
- **COLLABORATIVE ENVIRONMENTS**



HOW DO WE GET STARTED WITH SURVIVAL?

THIS IS YOUR PART!

DO WE WANT TO FORM A CM GROUP

GRC TO BE COMPETITIVE

RESOURCES, STANDARIZATION, COORDINATION

TRAINING

ESTABLISH MEETING TIMES AND FORMAT, TOPICS

DETERMINE ROLES AND RESPONSIBILITIES

ESTABLISH CHARTER AND GOALS